Robotics Research

The robot that I chose to research upon was DOMO, a robot torso and up robot that helps the elderly by doing simple household chores like putting away and taking out groceries from a bag. DOMO has a special motion-tracking system and spring-loaded actuators that make it better equipped to deal with household chores. Domo can size up an object by shaking it in its hand and then put it away in a cupboard. DOMO was built with the purpose of helping older people since many elderly people aren’t taken care of by younger people. Edsinger, a lead researcher on the Domo project said, “Domo takes variability into account. Instead of preprogramming the robot so that it only knows how to deal with cans and boxes with certain dimensions, Domo size up each item, one at a time, before deciding how it should be stored. That’s really helpful because then you don’t have to reprogram the robot every single time, the robot can decide for himself and it will save time and energy. The process begins with a human giving the robot an item, and then DOMO decides the dimensions and feel for the item based on the grip. DOMO is a great robot for daily help and use for people with lesser amounts of movement.

